

AS
2621

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
Thomas A. Dundon et al

Serial No.: 09/960635

Filed: September 21, 2001

Title: MULTIPLE-ORIENTATION IMAGE:
DEFECT DETECTION AND
CORRECTION

By the Examiner:

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Group Art Unit: 2621 Technology Center 2600

Applied Science Fiction, Inc.
8920 Business Park Drive
Austin, Texas 78759

Assistant Commissioner for Patents
Washington, D.C. 20231

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Date of Mailing: February 4, 2002

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Washington, D.C. 20231

Martha Rocha

Print Name

Martha Rocha

Signature

Dear Sir:

TRANSMITTAL LETTER

Transmitted herewith for filing in the above-identified application for patent are the following documents:

1. Information Disclosure Statement;
2. Form PTO-1449;
3. Copies of references.

No fee is due.

The Commissioner is hereby authorized to charge payment of any fees associated with this communication or credit any overpayment to Simon, Galasso & Frantz PLC Deposit Account No. 50-1259.

PATENT

RESPECTFULLY SUBMITTED,
Thomas A. Dundon

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INFORMATION DISCLOSURE STATEMENT

Applicant submits herewith patents, publications or other information of which he is aware, which he believes may be material to the patentability of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR 1.56.

While this Information Disclosure Statement may be "material" pursuant to 37 CFR 1.56, it is not intended to constitute an admission that any patent, publication or other information referred to herein is "prior art" for this invention unless specifically designated as such.

PATENT

In accordance with 37 CFR 1.97(g) the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists.

The attached form, PTO-1449, provides a listing of patents, publications, or other information as required by 37 CFR 1.98(a)(1).

A copy of each of these items on PTO-1449 is supplied herewith.

RESPECTFULLY SUBMITTED,
Thomas A. Dundon

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PTO FORM 4/92 FORM 1449		Technology Center 2000		Page 1 of 4								
		ATTY. DOCKET	ASF00083	SERIAL NO.	09/960635							
LIST OF PATENTS AND PUBLICATIONS		APPLICANT	Thomas A. Dundon et al									
FOR APPLICANT'S INFORMATION		FILING DATE	Sep. 21, 2001	GROUP	2621							
DISCLOSURE STATEMENT		FOR: MULTIPLE-ORIENTATION IMAGE DEFECT DETECTION AND CORRECTION										
UNITED STATES LETTERS PATENT												
		DOCUMENT NUMBER				DATE	NAME	CLASS	SUB CLASS			
		4	2	6	0	8	9	9	Apr. 7, 1981	Baker	250	563
		4	3	0	1	4	6	9	Nov. 17, 1981	Modeen et al.	358	75
		4	3	0	2	1	0	8	Nov. 24, 1981	Timson	356	359
		4	4	6	2	8	6	0	Jul. 31, 1984	Szmandra	156	626
		4	6	7	0	7	7	9	Jun. 2, 1987	Nagano	358	75
		4	6	7	7	4	6	5	Jun. 30, 1987	Alkofer	358	80
		4	6	8	0	6	3	8	Jul. 14, 1987	Childs	358	214
		4	7	0	0	2	2	9	Oct. 13, 1987	Herrmann et al.	358	166
		4	7	7	5	2	3	8	Oct. 4, 1988	Weber	356	431
		4	7	9	6	0	6	1	Jan. 3, 1989	Ikeda et al.	355	73
		4	8	4	5	5	5	1	Jul. 4, 1989	Matsumoto	358	80
		4	9	3	3	5	6	6	Jun. 12, 1990	Masaaki et al.	250	563
		4	9	3	7	7	2	0	Jun. 26, 1990	Kirchberg	363	41
		4	9	6	9	0	4	5	Nov. 6, 1990	Haruki et al.	358	228
		4	9	7	2	0	9	1	Nov. 20, 1990	Cielo et al.	250	562
		4	9	8	9	9	7	3	Feb. 5, 1991	Noso et al.	356	239
		4	9	9	4	9	1	8	Feb. 19, 1991	Lingemann	358	214
		5	0	0	3	3	7	9	Mar. 26, 1991	Moore, Jr. et al.	358	54
		5	0	1	0	4	0	1	Apr. 23, 1991	Murakami et al.	358	136
FOREIGN PATENT DOCUMENTS												
		DOCUMENT NUMBER				DATE	COUNTRY	CLASS	SUB CLASS			
		WO 84/02019				May 25, 1984	PCT	G06F	15/20			
		WO 89/06890				Jul. 27, 1989	PCT	H04N	3/36			
		WO 90/01240				Feb. 8, 1990	PCT	H04N	1/40			
		WO 91/09493				Jun. 27, 1991	PCT	H04N	5/127			
		WO 92/05469				Apr. 2, 1992	PCT	G03B	27/53			
		WO 95/15530				Jun. 8, 1995	PCT	G06F	17/14			
		WO 97/16028				May 1, 1997	PCT	H04N	7/30			
OTHER ART (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)												
		New Adaptive Vector Filter Based on Noise Estimate, Mei Yu, et al., IEICE Trans Fundamentals, Vol. E82, No. 6, June, 1999.										
		A Robust Method for Parameter Estimation of Signal-Dependent Noise Models in Digital Images, B. Aiazzi, et al., IEEE, 1997, pp. DSP 97 – 601-604.										
		A Regularized Iterative Image Restoration Algorithm, Aggelos K. Katsaggelos, et al., IEEE, 1991, pp. 914-929.										
		Adaptive Fourier Threshold Filtering: A Method to Reduce Noise and Incoherent Artifacts in High Resolution Cardiac Images, M. Doyle, et al., 8306 Magnetic Resonance in Medicine, May, 31, 1994, No. 5, Baltimore, MD., pp. 546-550										
		Anisotropic Spectral Magnitude Estimation Filters for Noise Reduction and Image Enhancement, Til Aach, et al., IEEE, 1996, pp. 335-338.										
		Adaptive-neighborhood filtering of images corrupted by signal-dependent noise, Rangaraj M. Rangayyan et al., Applied Optics, Vol. 37, No. 20, July 10, 1998, pp. 4477-4487.										

EXAMINER _____ **DATE CONSIDERED**

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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PTO FORM 4/92								Technology Center 2600		Page 2 of 4		
FORM PTC-91449								ATTY. DOCKET	ASF00083	SERIAL NO.	09/960635	
LIST OF PATENTS AND PUBLICATIONS								APPLICANT	Thomas A. Dundon et al			
FOR APPLICANT'S INFORMATION								FILING DATE	Sep. 21, 2001		GROUP	2621
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	5	0	4	7	9	6	8	Sep. 10, 1991	Carrington et al.	364	574	
	5	0	5	8	9	8	2	Oct. 22, 1991	Katzir	385	33	
	5	0	9	1	9	7	2	Feb. 25, 1992	Kwon et al.	382	54	
	5	0	9	7	5	2	1	Mar. 17, 1992	Massmann	382	54	
	5	1	4	9	9	6	0	Sep. 22, 1992	Dunne et al.	250	226	
	5	1	5	5	5	9	6	Oct. 13, 1992	Kurtz et al.	358	214	
	5	2	0	0	8	1	7	Apr. 6, 1993	Birnbaum	358	80	
	5	2	6	6	8	0	5	Nov. 30, 1993	Edgar	250	330	
	5	2	9	1	2	8	6	Mar. 1, 1994	Murakami et al.	348	469	
	5	2	6	7	0	3	0	Nov. 30, 1993	Giorgianni et al.	358	527	
	5	3	1	1	3	1	0	May 10, 1994	Jozawa et al.	348	416	
	5	3	3	5	0	8	6	Aug. 2, 1994	Kitamura	358	431	
	5	3	7	1	5	4	2	Dec. 6, 1994	Pauli et al.	348	262	
	5	4	4	7	8	1	1	Sep. 5, 1995	Buhr et al.	430	20	
	5	4	4	8	3	8	0	Sep. 5, 1995	Park	358	520	
	5	4	5	2	0	1	8	Sep. 19, 1995	Capitant et al.	348	651	
	5	4	6	5	1	5	5	Nov. 7, 1995	Edgar	385	500	
	5	4	6	5	1	6	3	Nov. 7, 1995	Yoshihara et al.	358	444	
	5	4	7	7	3	4	5	Dec. 19, 1995	Tse	358	500	
	5	5	0	9	0	8	6	Apr. 16, 1996	Edgar et al.	382	167	
	5	5	1	6	6	0	8	May 14, 1996	Hobbs et al.	430	30	
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	DOCUMENT NUMBER							DATE	COUNTRY		CLASS	SUB CLASS
	WO 98/31142							Jul. 16, 1998	PCT		H04N	5/253
	WO 98/34397							Aug. 6, 1998	PCT		H04N	
	WO 99/40729							Aug. 12, 1999	PCT		H04N	9/11
	WO 01/48694							Jul. 5, 2001	PCT		G06T	5/00
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	DE 28 21 868 A1							Nov. 22, 1979	Germany		G01N	21/32
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	Grayscale Characteristics, Photographic Negatives The Nature of Color Images, Digital Color Management, Giorgianni, et al., Jan. 1998, pp. 163-168.											
	Digital Imaging Equipment White Papers, Putting Damaged Film on Ice, A Technical Discussion of Advances in Digital Imaging, Nikon Corporation, http://www.nikonusa.com/reference/whitepapers/imaging/ditechdisc.html , Aug. 5, 1999.											
	Local Cosine Transform – A Method for the Reduction of the Blocking Effect in JPEG, Gil Aharoni, et al., Journal of Mathematical Imaging and Vision, 3, 7-38, 1993.											
	Digital ICE, Applied Science Fiction, Inc., http://www.asf.com/html/o_products/iceprod.html . Aug. 5, 1999.											
	About Digital ICE Technology, Applied Science Fiction, Inc., http://www.asf.com/html/o_products/icetech.html . Aug. 5, 1999.											
	2-D Adaptive Volterra Filter for 2-D Nonlinear Channel Equalisation and Image Restoration, J.N. Lin, et al., Electronic Letters, Vol. 28, No. 2, Jan. 16, 1992, pp. 180-182.											

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	5	5	5	2	9	0	4	Sep. 3, 1996	Ryoo et al.	358	518
	5	5	6	1	6	1	1	Oct. 1, 1996	Avinash	364	553
	5	5	6	5	9	3	1	Oct. 15, 1996	Girod	348	675
	5	5	6	8	2	7	0	Oct. 22, 1996	Endo	358	298
	5	5	8	1	3	7	6	Dec. 3, 1996	Harrington	358	518
	5	5	8	2	9	6	1	Dec. 10, 1996	Giorgianni et al.	430	508
	5	5	8	3	9	5	0	Dec. 10, 1996	Prokoski	382	212
	5	5	8	9	8	8	7	Dec. 31, 1996	Wischermann	348	616
	5	6	0	8	5	4	7	Mar. 4, 1997	Nakatani et al.	358	505
	5	6	4	1	5	9	6	Jun 24, 1997	Gray et al.	430	21
	5	6	6	6	4	4	3	Sep. 9, 1997	Kumashiro	382	266
	5	6	7	3	3	3	6	Sep. 30, 1997	Edgar et al.	382	167
	5	7	2	1	6	2	4	Feb. 24, 1998	Kumashiro et al.	358	450
	5	7	6	2	7	7	3	Mar. 10, 1998	Mehlo et al.	358	474
	5	7	2	9	6	3	1	Mar. 17, 1998	Wober et al.	382	232
	5	7	7	1	1	0	7	Jun. 23, 1998	Fujimoto et al.	358	464
	5	8	0	8	6	7	4	Sep. 15, 1998	Adams, Jr. et al.	348	273
	5	8	9	2	5	9	5	Apr. 6, 1999	Yamakawa et al.	358	530
	5	9	2	3	0	4	2	Jul. 13, 1999	Mietta et al.	250	559.06
	5	9	3	0	3	8	8	Jul. 27, 1999	Murakami et al.	382	167

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	EP 1 547 811	Jun. 27, 1979	Europe	H04N	3/36
	EP 0 422 220 A1	Apr. 17, 1991	Europe	A61B	6/03
	EP 0 482 790 B1	Apr. 29, 1992	Europe	H04N	1/40
	EP 0 527 097 A2	Feb. 10, 1993	Europe	H04N	1/40
	EP 0 569 142 A1	Nov. 10, 1993	Europe	H04N	5/253
	EP 0 624 848 A2	Nov. 17, 1994	Europe	G06F	15/68
	EP 0 669 753 A2	Aug. 30, 1995	Europe	H04N	1/407
	EP 0 716 538 A2	Jun. 12, 1996	Europe	H04N	1/50
	EP 0 751 670 A2	Jan. 2, 1997	Europe	H04N	1/10
	EP 0 768 621 A2	Apr. 16, 1997	Europe	G06T	5/20
	EP 0 794 454 A2	Sep. 10, 1997	Europe	G03B	27/73
	EP 0 816 833 A2	Jan. 7, 1998	Europe	G01N	21/88
	EP 0 816 833 A3	Aug. 26, 1998	Europe	G01N	21/88
	EP 0 893 914 A2	Jan. 27, 1999	Europe	H04N	5/253

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	JP 11185028	Jul. 9, 1999	Japan	G06T	1/00
	JP 4-291139	Oct. 15, 1992	Japan	G01N	21/89
	JP 2000-13604	Jan. 14, 2000	Japan	H04N	1/409
	JP 2000-196813A	Jul. 14, 2000	Japan	H04N	1/4

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